

# 2-Chloro-3-trichloromethylbicyclo[2.2.1]heptane

<b>Other names:</b>	Norbornane, 3-chloro-2-trichloromethyl, exo-Cl
<b>Inchi:</b>	InChI=1S/C8H10Cl4/c9-7-5-2-1-4(3-5)6(7)8(10,11)12/h4-7H,1-3H2
<b>InchiKey:</b>	UBXTVVBTCPEJJI-UHFFFAOYSA-N
<b>Formula:</b>	C8H10Cl4
<b>SMILES:</b>	C1C1C2CCC(C2)C1C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	247.98

## Physical Properties

Property code	Value	Unit	Source
gf	65.58	kJ/mol	Joback Method
hf	-181.40	kJ/mol	Joback Method
hfus	22.16	kJ/mol	Joback Method
hvap	49.03	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	4.010		Crippen Method
mcvol	150.820	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
rinpol	1464.00		NIST Webbook
rinpol	1464.00		NIST Webbook
tb	537.34	K	Joback Method
tc	777.87	K	Joback Method
tf	325.90	K	Joback Method
vc	0.573	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.62	J/mol×K	537.34	Joback Method
cpg	338.97	J/mol×K	577.43	Joback Method
cpg	352.96	J/mol×K	617.52	Joback Method
cpg	365.72	J/mol×K	657.61	Joback Method
cpg	377.36	J/mol×K	697.70	Joback Method
cpg	388.00	J/mol×K	737.78	Joback Method
cpg	397.76	J/mol×K	777.87	Joback Method

dvisc	0.0025958	Paxs	325.90	Joback Method
dvisc	0.0021203	Paxs	361.14	Joback Method
dvisc	0.0017953	Paxs	396.38	Joback Method
dvisc	0.0015620	Paxs	431.62	Joback Method
dvisc	0.0013878	Paxs	466.86	Joback Method
dvisc	0.0012538	Paxs	502.10	Joback Method
dvisc	0.0011478	Paxs	537.34	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U216751&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U216751&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/76-691-1/2-Chloro-3-trichloromethylbicyclo-2-2-1-heptane.pdf>

Generated by Cheméo on 2024-04-23 12:53:17.726511196 +0000 UTC m=+16166046.647088513.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.